

TABLE I

	Sample No.				
	1	2	3	4	5
Composition (Weight %)	SiO ₂	57.8	66.3	67.4	64.3
	Al ₂ O ₃	24.6	18.2	16.6	18.0
	Li ₂ O	2.7	2.3	2.3	2.5
	K ₂ O	7.0	3.4	3.5	5.0
	TiO ₂	2.8	1.8	3.0	3.0
	ZrO ₂	3.2	1.8	1.8	2.0
	ZnO	1.0	3.1	2.0	3.1
	MgO	—	1.0	1.0	1.0
	CaO	—	—	—	0.4
	BaO	—	—	—	0.5
	B ₂ O ₃	—	—	2.0	—
	Na ₂ O	0.4	—	—	—
	P ₂ O ₅	—	—	0.4	—
	As ₂ O ₃	0.5	—	—	0.2
	Bi ₂ O ₃	—	2.1	—	—
Condition of crystallization (° C)					
Temperature of nucleation	780	780	790	780	780
Temperature of crystal growth	1000	1000	980	1050	1000
Main crystal	β-silica solid solution	β-spodumene solid solution	β-spodumene solid solution	β-spodumene solid solution	β-spodumene solid solution